

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A wireless base station ~~operatively connected to a wireless network control device, another wireless base station and a subscriber unit,~~ station, comprising:

a first communication device ~~for receiving~~ configured to receive downlink data frames from ~~the a~~ wireless network control device and ~~transmitting~~ transmit uplink data frames to the wireless network control device;

a second communication device ~~for transmitting~~ configured to transmit downlink wireless signals to ~~the a~~ subscriber unit and ~~receiving~~ receive uplink wireless signals from the subscriber unit;

a channel processing device ~~for processing~~ configured to process ~~the~~ downlink data frames into ~~the~~ downlink wireless signals and ~~processing~~ process ~~the~~ uplink wireless signals into ~~the~~ uplink data frames;

and

a signal distribution unit ~~for supplying~~ configured to selectively allocate ~~the~~ downlink data frames and ~~the~~ uplink wireless signals associated with the subscriber unit; ~~to~~

to the channel processing device of the wireless base station for processing; and

to another wireless base station for processing; processing; and  
~~characterized in that,~~

~~the wireless base station further comprising a third communication device for communicating~~ configured to communicate with the another wireless base station, ~~and wherein~~ the signal distribution unit comprises: ~~further comprising;~~

a forwarding control means for controller configured to transmit  
~~transmitting the~~ downlink data frames ~~or and~~ uplink wireless signals allocated to the another

wireless base station for processing to the another wireless base station and ~~receiving~~ receive corresponding downlink wireless signals ~~or~~ and uplink data frames from the another wireless base station, through the third communication device.

2. (Currently Amended) The wireless base station of claim ~~1~~, ~~characterized in that the forwarding control means~~ 1 wherein the forwarding controller is further configured to transmit frame timing information relating to the uplink wireless signals or downlink data frames transmitted to said another wireless base station to said another wireless base station.

3. (Currently Amended) The wireless base station of claim 2 wherein ~~2~~, ~~characterized in that~~ said frame timing information is the wireless base station local frame timing and ~~the~~ cell system frame timing information.

4. (Currently Amended) The wireless base station of claim ~~1~~, ~~characterized in that the forwarding control means~~ 1 wherein the forwarding controller is further configured to advance ~~the~~ a corresponding transmission by a time amount greater than or equal to ~~the~~ a round trip transmission delay between said wireless base station and said another wireless base station, relative to ~~the~~ frame timing relating to the uplink wireless signals or downlink data frames transmitted to said another wireless base station.

5. (Currently Amended) The wireless base station of claim ~~1~~, ~~characterized in that the forwarding control means~~ 1 wherein the forwarding controller is further configured to transmit the uplink wireless signals and downlink data frames to said another wireless base station, and receive corresponding downlink wireless signals and uplink data frames from said another wireless base station.

6. (Currently Amended) The wireless base station of claim ~~5~~, ~~characterized in that~~ 5 wherein said ~~forwarded~~ uplink wireless signals and said ~~forwarded~~ downlink data frames transmitted by the forwarding controller belong to ~~the~~ a same ~~physie~~ physical channel.

7. (Currently Amended) The wireless base station of claim-~~1~~, ~~characterized in that said forwarding control means~~ 1 wherein the forwarding controller is further configured to exchange control signaling with said another base station.

8. (Currently Amended) The wireless base station of claim-~~7~~, ~~characterized in that said~~ 7 wherein the control signaling comprises channel processing resource query, allocation control, establishment, modification and release operating commands.

9. (Currently Amended) The wireless base station of claim-~~1~~, ~~characterized in that said~~ 1 wherein the another base station is configurable, and said forwarding ~~control means-controller~~ is further configured to perform transmission and reception to and from the configured another base station.

10. (Currently Amended) The wireless base station of claim-~~9~~, 9 wherein said another wireless base station's configuration is decided by said wireless network control device, or said wireless base station, or said another wireless base station, or a third party wireless base station, or through the negotiation between wireless base stations.

11. (Currently Amended) A wireless communication system, comprising:  
~~wireless base station system including~~  
a plurality of first-base-station, stations; and  
~~a second base station and~~  
a wireless network control device, ~~said at least a first base station~~ of the plurality of base stations comprising:  
a first communication device ~~for receiving~~ configured to receive downlink data frames from the wireless network control device and ~~transmitting~~ transmit uplink data frames to the wireless network control device;  
a second communication device ~~for transmitting~~ configured to transmit downlink wireless signals to ~~the~~ a subscriber unit and ~~receiving~~ receive uplink wireless signals from the subscriber unit;

a channel processing device ~~for processing~~ configured to process the  
downlink data frames into ~~the~~ downlink wireless signals and ~~processing~~ process the uplink  
wireless signals into ~~the~~ uplink data frames; ~~and~~

a signal distribution unit ~~for supplying the~~ configured to selectively  
allocate downlink data frames and ~~the~~ uplink wireless signals associated with the subscriber unit:

to the channel processing device of the first base station for  
processing; and

to a second base station of the plurality of base stations for  
~~processing; processing; and~~

~~characterized in that,~~

~~the first base station further comprising a third communication device for~~  
~~communicating~~ configured to communicate with the second base station, ~~and wherein~~ the signal  
distribution unit ~~further comprising; comprises:~~

~~forwarding control means for transmitting the a forwarding~~  
controller configured to transmit downlink data frames or uplink wireless signals allocated to the  
second base station to the second base station and ~~receiving~~ receive corresponding downlink  
wireless signals or uplink data frames from the second base station, through the third  
communication device.

12. (Currently Amended) The base station system of claim ~~11, characterized~~  
~~in that the forwarding control means~~ 11 wherein the forwarding controller is further configured  
to transmit frame timing information relating to the uplink wireless signals or downlink data  
frames transmitted to said second base station to said second base station.

13. (Currently Amended) The base station system of claim ~~12, characterized~~  
~~in that~~ 12 wherein said frame timing information is the wireless base station local frame timing  
and ~~the~~ cell system frame timing information.

14. (Currently Amended) The base station system of claim-11, ~~characterized in that the forwarding control means~~ 11 wherein the forwarding controller is further configured to advance ~~the a~~ corresponding transmission by a time amount greater than or equal to ~~the a~~ round trip transmission delay between said first base station and said second base station, relative to ~~the~~ frame timing relating to the uplink wireless signals or downlink data frames transmitted to said second base station.

15. (Currently Amended) The base station system of claim-11, ~~characterized in that the forwarding control means~~ 11 wherein the forwarding controller is further configured to transmit the uplink wireless signals and downlink data frames to said second base station, and receive corresponding downlink wireless signals and uplink data frames from said second base station.

16. (Currently Amended) The base station system of claim-15, ~~characterized in that~~ 15 wherein said ~~forwarded~~ uplink wireless signals and said ~~forwarded~~ downlink data frames transmitted by the forwarding controller belong to ~~the a same physie~~ physical channel.

17. (Currently Amended) The base station system of claim-11, ~~characterized in that said forwarding control means~~ 11 wherein the forwarding controller is further configured to exchange control signaling with said second base station.

18. (Currently Amended) The base station system of claim-17, ~~characterized in that~~ 17 wherein said control signaling comprises channel processing resource query, allocation control, establishment, modification and release operating commands.

19. (Currently Amended) The base station system of claim-11, ~~characterized in that~~ 11 wherein said second base station is configurable, and said forwarding ~~control means~~ controller is further configured to perform transmission and reception to and from the configured second base station.

20. (Currently Amended) The base station system of claim-19, 19 wherein said second base station's configuration is decided by said wireless network control device, or said first base station, or said second wireless base station, or another base station, or through the negotiation between base stations.

21. (Currently Amended) A communication ~~method in a wireless base station which is operatively connected to a wireless network control device, another wireless base station and a subscriber unit, the wireless base station comprising a first communication device, a second communication device, a channel processing device and a signal distribution unit, the method comprising steps:~~ method, comprising:

receiving downlink data frames from ~~the~~ a wireless network control device through ~~the~~ a first communication ~~device;~~ device of a wireless base station;

transmitting uplink data frames to the wireless network control device through the first communication device;

transmitting downlink wireless signals to ~~the~~ a subscriber unit through ~~the~~ a second communication ~~device;~~ device of the wireless base station;

receiving uplink wireless signals from the subscriber unit through the second communication device;

~~supplying~~ selectively allocating, through ~~the~~ a signal distribution unit of the wireless base station, processing of the downlink data frames and ~~the~~ uplink wireless signals associated with the subscriber unit:

to ~~the~~ a channel processing device of the wireless base station; and

to another wireless base station; for processing; and

processing the downlink data frames allocated to the channel processing device into ~~the~~ downlink wireless signals and processing the uplink wireless signals allocated to the channel processing device into ~~the~~ uplink data frames in the channel processing ~~device;~~ device;

~~wherein the wireless base station further comprising a third communication device for communicating with the another wireless base station, and the method is characterized in that the providing step further comprising:~~

transmitting the downlink data frames ~~or~~ and the uplink wireless ~~signal~~ signals  
allocated to the another wireless base station to the another wireless base station through ~~the a~~  
third communication ~~device~~; device of the wireless base station; and

receiving corresponding downlink wireless signals or uplink data frames from the  
another wireless base station through the third communication device.

22. (Currently Amended) A communication method in a wireless base station  
system, the wireless base station system comprising a first base station, a second base station and  
a wireless network control device, the first base station comprising a first communication device,  
a second communication device, a channel processing device and a signal distribution unit, the  
method comprising, wherein in the first base station:

receiving downlink data frames from the wireless network control device through  
the first communication device;

transmitting uplink data frames to the wireless network control device through the  
first communication device;

transmitting downlink wireless signals to ~~the a~~ subscriber unit through the second  
communication device;

receiving uplink wireless signals from the subscriber unit through the second  
communication device;

selectively allocating, supplying through the signal distribution ~~unit the~~ unit,  
processing of downlink data frames and ~~the~~ uplink wireless signals associated with the  
subscriber unit;

to the channel processing device of the first base station; ~~for processing~~;

and

to the second base station; and

processing the downlink data frames allocated to the channel processing device  
into ~~the~~ downlink wireless signals and processing the uplink wireless signals allocated to the  
channel processing device into ~~the~~ uplink data frames in the channel processing device,

wherein the first base station further ~~comprising~~ comprises a third communication device for communicating with the second base station, and the method is ~~characterized in that the providing step further comprising~~ comprises:

in the first base station, transmitting the downlink data frames or the uplink wireless signals allocated to the second base station to the second ~~wireless~~ base station through the third communication device; and

in the first base station, receiving corresponding downlink wireless signals or uplink data frames from the second base station through the third communication device.

23. (New) The wireless base station of claim 1 wherein the signal distribution unit configured to selectively allocate downlink data frames and uplink wireless signals to a third wireless base station for processing and the forwarding controller is configured to transmit downlink data frames and uplink wireless signals allocated to the third wireless base station for processing to the third wireless base station and receive corresponding downlink wireless signals and uplink data frames from the third wireless base station, through the third communication device.

24. (New) The system of claim 11 wherein the signal distribution unit is configured to selectively allocate downlink data frames and uplink wireless signals to additional base stations of the plurality of wireless base stations for processing and the forwarding controller is configured to transmit downlink data frames or uplink wireless signals allocated to the additional base stations to the respective base stations and receive corresponding downlink wireless signals or uplink data frames from the respective base stations, through the third communication device.